



## **Environmental Technology Verification Program P2 Innovative Coatings and Coating Equipment Pilot (ETV CCEP)**



The Environmental Technology Verification Program (ETV) was established by the U.S. Environmental Protection Agency (EPA) to accelerate the development and commercialization of improved environmental technologies through third party verification and reporting of performance. ETV provides purchasers, permittees, and developers with objective, quality assured performance data on new technologies. The program now operates 12 pilots covering a broad range of environmental areas. For each ETV pilot, EPA selects a partner organization(s) to oversee and conduct verification activities based on testing and quality assurance protocols developed with input from all major stakeholder/customer groups associated with the technology area. ETV has verified 66 technologies to date and over 95 additional technologies are presently in the verification process. It is expected that ETV will verify approximately 300 better, faster, cheaper technologies within the first decade of the ETV program.

### **ETV Program Goal**

To verify the environmental performance characteristics of commercial-ready technologies through the evaluation of objective and quality assured data so that potential purchasers and permittees are provided with an independent and credible assessment of the technology they are buying or permitting.

### **ETV Customers**

- ◇ Technology Users and Purchasers
- ◇ Technology Enablers
  - Permittees, Regulators
  - Consulting Engineers
  - Financial and Export Communities
- ◇ Technology Developers and Vendors

## **P2 Innovative Coatings and Coating Equipment Pilot**

### **Searching for Solutions**

Coating processes account for significant volatile organic compound (VOC) and hazardous air pollutant (HAP) emissions. These emissions contribute to cancer and non-cancer health risks as well as ecological damage. In order to reduce these emissions and their effects, a multitude of new coating technologies are being developed and marketed without the use of standardized evaluation protocols to ensure that products provide an environmental benefit at equivalent or enhanced performance and cost. An unbiased, third party coating verification center using standardized test protocols provides documentation to verify environmental benefits. Increased market penetration of lower polluting products and sales of verified products are expected to occur as a result of testing.

### **How the Pilot Works**

EPA has partnered with Concurrent Technologies Corporation (CTC)—a nonprofit, professional services and testing organization—in conjunction with the Department of Defense's National Defense Center for Environmental Excellence (NDCEE) to establish a self-supporting, operational verification center to evaluate innovative coatings and coating application technologies. The pilot will verify the acceptability of lower polluting innovative coating and coating application techniques for metal and other substrates. Standardized test protocols will be developed in coordination with industry trade associations and other appropriate stakeholders selected by EPA and CTC to facilitate broad acceptance of test results.

## What Has Been Accomplished

The ETV CCEP has completed verification testing of several high volume, low pressure (HVLP) spray guns and the Laser Touch™, a device developed to optimize the efficiency of manual spray painting. A number of other products, including innovative liquid coatings, are in the verification process.

The ETV CCEP targets key technology focus areas for pollution prevention in the coating industry based on market research and stakeholder guidance. Current focus areas include high volume, low pressure (HVLP) spray guns, innovative liquid coatings, and individual innovative products. Future focus areas include UV-curable coatings and cleaning systems for painting equipment. The ETV CCEP accepts applications from any inter-

ested vendor that has an innovative, environmentally beneficial and commercially available (market ready) coating, coating application method, or related product.

The ETV CCEP's stakeholders have met six times since March 1997. The Stakeholder Group is comprised of representatives from many associations and organizations, including business assistance programs, coatings and coating equipment manufacturers and end users, state and Federal regulatory agencies, industry trade associations, and professional societies.

More information on the activities of the ETV CCEP, including verification statements, verification reports, test protocols, and stakeholder meetings, can be obtained at the ETV Web Site or through the contacts listed below.

### Benefits of ETV CCEP

- ❖ Provides objective, credible performance data to buyers.
- ❖ Leads to increased market penetration of lower polluting products.
- ❖ Facilitates technology acceptance and permitting at state/local level.
- ❖ Reduces risk for financial investors.
- ❖ Levels the playing field among competitors through standardized tests and objective reporting.
- ❖ Facilitates export of American products and their acceptance abroad.

### Pilot Contacts

For additional information on this ETV Pilot, please contact:

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